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{Continued on next page}

(54) Title: METHODS AND REAGENTS FOR TREATING, PREVENTING AND DIAGNOSING BUNYAVIRUS INFECTION

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DNA: AGTAGTGTACTACCAAGTATAGATAACGTTGATAATTAAAGTTTGATC
DNA: AAAGCCAAAGATGATTGTTATGGTCTATTACAGTTGCAAGCTGAAAG
M(1):: M I C I L V L I T V A A A S
DNA: CCCAGTGTATCAARAGGTGTTCCAGATGGGCTATAGTGAACGAAAC
M(15): P Y Q R C F Q D G A I V K Q N P
DNA: ATCCAAARGCAGTACAGAGGTGTGCTGAAGATGATGTTAGCATGAT
M(32):: S K E A V T E V C L K D D V S M I
DNA: CAAACAGAGGCCAGGTATGTAAGAAATGCAACAGGAGTTTTTCAAAATAA
M(49): K T E A R Y V R N A T G V F S N N
DNA: TGTCGCAATAGGAAATGGCTAGTCCTCATGATGGCATGATTGAGGCC
M(66): V A I R K W L V S D W H D C R P K
DNA: GAAGATCGTTGGGGACACATCATGTAATAGAAGTTGGTGTGACCTGTC
M(83): K I V G G H I N V I E V G D D L S
DNA: ACTCCATACTGAATCATATGGTTGCGCCGCAAGATGTACCATAGGTG
M(100): L H T E S Y V C S A D C T I G V D
DNA: CAAAGAGACTGCACAGGTGCGCTTCAGACAGATACCRCAAATCATG
M(117): K E T A Q V R L Q T D T T N H F E
DNA: AATTGCAGGCACACTGTGAAGTCAGGATGGTCAGAGCAGACATATA
M(134): I A G T T V K S G W F K S T T Y I
DNA: AACTCTTGTACAAACTTGGACACCCTTAAAGTTCCAGGGCCAAATC
M(151): T L D Q T C E H L R V S C G P K S
DNA: TGTCACGTCCATGCCCTCTCAATCAGCATATGCTTGCGCTCAGATT
M(168): V Q F H A C F N Q R M S C V R F L
DNA: ACACAGGACAATATTGCCCTGGCTCATAGCCAAATCCATATGTCAGAA
M(185): H R T I L P G S I A N S I C Q N I
DNA: CGAAATCTAAATTCTAGTACACTTACTCTTATTAATCTTATATTGTTAAG
M(202): E I I I L V T L T L L I F I L S
DNA: CATTTTAGTAAAGCTTAAJATGTTATTTAAATGCCCTATATGTCAGAA
M(219): I L S K T Y I C Y L L M E I F I P
DNA: CATAUCATATAACGGTATAATTACATAACTGCTGCAAAAGTC
M(236): I A Y I Y G I I Y N K S C K K C K
DNA: ATATATGTCGCTTAGTGTATCATCCATTACAGAGTGTGGCACRCATG
M(253): L C G L D V Y H P F T E C G T H C V
DNA: CTGTGCTGCCGCTATGACTTCAGATGATGAAACCTGCATAGAGCTTC
M(270): C G A R Y D T S D R M K L H R A S
DNA: TGGATTGTCGCTGGTTAAAGCTARGAGCTGCCAGAGTCATG
M(287): G L C P G Y K S L R A A R / V M C K

(57) Abstract: Immunogenic compositions for use in treating, preventing and diagnosing infection caused by the California (CAL) serotype of the genus *Bunyavirus*, such as La Crosse virus (LACV), are disclosed. Also described are reagents for use in diagnostic assays.



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